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vol. 24

January 4, 1980

PAARA

GRAPHS



**palo alto
AMATEUR
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73,

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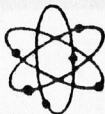
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PAARagraphs is the official organ of

The Palo Alto Amateur Radio Association and the Menlo Park Civil Defense Radio Club

1980 CLUB OFFICERS

BOARD OF DIRECTORS

President	:	Bob Wheeler	K6SEM	494 6549	Chairman:	Bob Wheeler	K6SEM
Vice President	:	Eric Edberg	W6DU	948 1748	Members :	Ed Fairbanks	W6AIN
Secretary	:	Gerry Tucker	WA6LNV	326 4908		Swede Swenson	KA6BEU
Treasurer	:	Irene Lile	WB6RAF	851 7473		Shannon Lile	K6TNY
Trustee, K6OTX	:	Fred Canham	K6YT	948 9238		Gerry Wagstaffe	W6NIR
Property	:	Ed Fairbanks	W6AIN	322 0319		Terry Conboy	N6RY
ARES Officer	:	Steve Stuntz	K6FS	322 4952		Jock McKaig	N6YV

PAARA POLICIES

PAARagraphs STAFF

Membership in PAARA is \$6.00 per calander year (payable in January) which membership includes a subscription to PAARagraphs. Interested others may subscribe to PAARagraphs for \$6.00. Make payment to:

Editor	:	Bob Baum	W6BFH
Production	:		
Advertising	:	Swede Swenson	KA6BEU
Printing	:	Baker Graphics	F1NE
Mailing	:	Ed Fairbanks	W6AIN
Cover	:	Sue Lindner	LØVLY

PAARA, P.O. Box 911, Menlo Park, CA 94025

Written contributions to P. O. Box above, or, 1043 Del Norte Av., Menlo Park, CA 94025

R E G U L A R M E E T I N G

Friday

January 4, 1980

7:30 p.m.

RICK FERRANTI, WA6NCX

Rick has been gone a long time and has a lot to say. How he will start is anyone's guess. How he will finish will surely be in a round of applause. Word comes that, in his 50 to 60 minutes time, he will cover: 1. Neucular Magnetic Resonance, 2. Super Conductive Magnets, 3. Power Amplifiers and Recievers. 4. Amateur Radio Station, W1NX, 5. one subject your editor is holding back--because he can't read his notes.

Something for everyone by Rick. If you miss it, we tried to get word to you--

Menlo Park Recreation Center, Alma at Mielke, Friday, January 4, 1980

CIRCLE THE DATE

January 4, 1980

Next Meeting February 1.

PAST CORNER: Fifty eight attended the December 7 meeting and were pleasantly surprised at what they saw and heard. Bob, K6SEM, introduced new members (see CUT AND PASTE), announced the new FCC examination schedule (see UPGRADE CORNER), made the last of the free name tag distribution, discussed the W6ASH/R repeater. Jerry, WA6INV, accepted final requests for participation in the Christmas Dinner December 17 and announced that more than 50 had signed up. Irene, WB6RAF, distributed membership cards to those who had paid \$6.00 dues. Then she announced that dues for 1980 were payable.

Steve, K6FS, gave a report on the October SET, discussing the arrangements with the City of Menlo Park for the use of space in the Emergency Coordinating Center and of the use of the antenna mount installed by the City. Jerry, WA6LIJ, was given the job of mailing some 15 name tags to members who joined last year but failed in a repeat appearance to pick up their tags—a major reason for the program being abandoned.

December 7 was also election night. All of those placed in office and on the Board of Directors were present and accepted their assignments. The Officers and Board members are listed on page 3.

Coffee, cookies, hot chocolate and maybe tea accompanied eyeball QSO's before the fun question bee that made up the program. Some fell into the correct answer to questions by accident; others knew their stuff. Shannon, K6TNY, knew the answer to all the questions asked him and Ken, WA6NYB, knew all but one.

It was a fun night. We missed many but hope to see them at the January 4 meeting.

+ + +

BOARD CORNER: The December meeting of the Board of Directors was called to order at 7:50 p.m., late for a change. Present were Bob, K6SEM, Irene, WB6RAF, Gerry, WA6LNV, Shannon, K6TNY, Ed, W6AIN, Swede, KA6BEU/SF Gerry, W6NIR and the following transpired:

1. Irene gave a Treasurer's report.
2. Gerry, WA6LNV, reported 57 had paid for and were expected at the Christmas Party.
3. Bob, K6SEM, brought up a legal matter regarding the title to the PAARA trailer. The problem was favorably resolved.
4. A letter from March Fong Eu, Secretary of State, to PAARA was discussed regarding our corporate classification. We have been classified as a "mutual benefit" corporation in accordance with a 1978 statute. Gerry, W6NIR, gave the Board an explanation of the statute and how it affects the Club.

5. The "old" 1979 callbooks will be raffled off at the Christmas party

6. The Club was offered a representative of the SRI Community Conference to attend the January meeting.

7. The Schoofs have been sent complimentary dinners in thanks for the use of their property during our "better than anyone" Field Day effort.

8. The President thanked the Board and Officers for their efforts over the past year.

9. The need for a member that has the time and dedication to attend CCRC meetings was brought up. The search is on.

10. And that's the way it was. The meeting adjourned to continue, sans minutes, down the block and around the corner. The next Board meeting will be held in the trailer Wednesday, January 9, 1980. All are invited.
" " "

EXPLORER CORNER: Even though the months of winter are rolling on, Explorer Post 599 continues just as active as ever. Upgrades and new licenses have been plentiful. Our President, Jim O'Neil, is not one of the few non-licensed members anymore. He recently received the call KA6IKX. We congratulate Jim for his fine accomplishment. He is already working to upgrade to his general. Jerry Hogsett, formerly KA6FYW, recently upgraded to a general and received the new call N6CCM.

A good percentage of Post members showed up for the Flea Market at the Ford Aerospace parking lot on Sunday, December 2. The Post made approximately \$50 from the assorted donations by PAARA from their Auction/Flea Market. Thanks for the equipment.

Unfortunately our camping trip to Mount Diablo on the weekend of the 'phone sweepstakes was cancelled. However, thanks to Fred, K6YT, the Post was able to set up a Tri-Band beam next to our Club House and operate the sweepstakes anyway. Our final count of contacts was 200, including Japan, Canada, and about every state but five. Almost every member who attended got to operate at one time or another and everyone had fun. Special thanks to Alan, WA6AZP, for all the help he provided.

Two new officers were named at the November 14 meeting. Jerry, N6CCM, is our new treasurer, and Huntley, KA6HEB, is our new secretary.

Our invitation is always open to come down to see our shack, attend a meeting, or visit our Post at any time. We really appreciate all the support.
73, Huntley, KA6HEB

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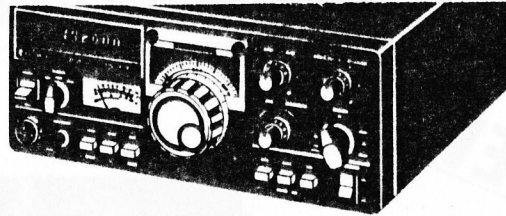
ANNOUNCING!

SALE

save!

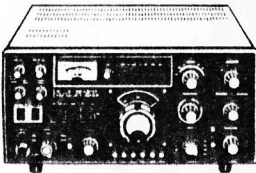
KENWOOD TS-120S HF SSB transceiver

An incredibly small, all solid state transceiver with miniaturized circuits featuring a new PLL circuit that does not require a crystal element for each band, built-in digital display, IF shift system, built-in 3.5-29.7 MHz and WWV, built-in cooling fan, protection circuit for the final transistor, 4 fixed channels, available, noise blanker, built-in VOX, built-in 25 KHz marker, power requirements: R 0.7A 13.8 VDC T 1.8A 13.8 VDC PS-30 power supply optional, regulated 13.8 VDC at 15A continuous, 20A intermittent. **139.00.**



699.95

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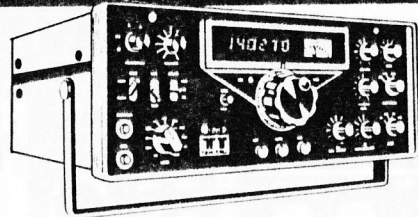


YAESU FT-101ZD HF transceiver

Full band coverage 160 to 10 meters and WWV, digital plus analog readout, noise blanker, RF speech processor, VOX, heater switch, modes SSB and CW, variable IF bandwidth, RF and AF gain controls, built-in power supply, 6146 final tubes, input power 180 WDC

895.00

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TEN-TEC Omni D transceiver

Totally solid state transceiver with a digital readout. Covers 160-10 meters, VOX and PTT, built-in squelch, built-in 4 pos. CW/SSB filter, 2 speed break-in, power input 200 watts with a 50 ohm load, 100% duty cycle basic 12 VDC operation AC power supply 252M.O optional List 126.00

1069.00

Call for quote

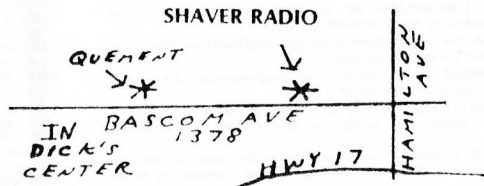
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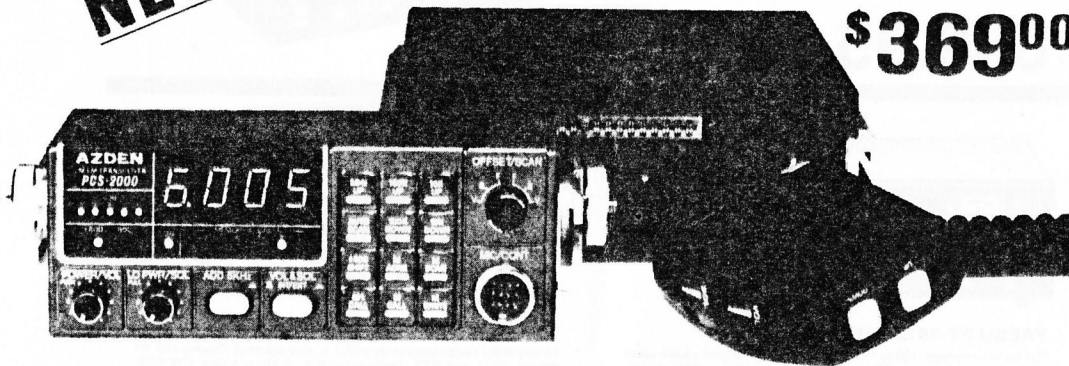
2 METER FM TRANSCEIVER

NOT \$550.00

**INTRODUCTORY
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**COMPARE THESE FEATURES
WITH ANY UNIT AT ANY PRICE**

- **FREQUENCY RANGE:** Receive and transmit, 144.00 to 147.995 MHz, 5Khz steps + MARS-CAP* and MULTIPLE OFFSET BUILT IN.
- **ALL SOLID STATE CMOS PL DIGITAL SYNTHESIZED.**
- **SIZE: UNBELIEVABLE! ONLY 6 1/2" x 2 1/4" x 9 1/4" COMPARE!**
- **MICROCOMPUTER CONTROLLED:** All scanning and frequency control functions are performed by microcomputer.
- **DETACHABLE HEAD:** The control head may be separated from the radio for use in limited spaces and for security purposes.
- **SIX CHANNEL MEMORY:** Each memory is re-programmable. Memory is retained even when the unit is turned off.
- **MEMORY SCAN:** The six channels may be scanned in either the "busy" or "vacant" modes for quick, easy location of an occupied or unoccupied frequency.
- **FULL BAND SCAN:** All channels may be scanned in either "busy" or "vacant" mode. This is especially useful for locating repeater frequencies in an unfamiliar area.
- **INSTANT MEMORY-1 RECALL:** By pressing a button on the microphone or front panel, memory channel 1 may be recalled for immediate use.
- **MIC-CONTROLLED VOLUME AND SQUELCH:** Volume and squelch can be adjusted from the microphone for convenience in mobile operation.

- **ACCESSORY OFFSET:** With one optional crystal, three non-standard offsets become available.
- **25 WATTS OUTPUT:** Also 5 watts low power for short distance communication.
- **DIGITAL S/R/F METER:** LEDs indicate signal strength and power output. No more mechanical meter movements to fall apart!
- **LARGE 1/2-INCH LED DISPLAY:** Easy to read frequency display minimizes "eyes off the road" time.
- **PUSHBUTTON FREQUENCY CONTROL FROM MIC OR FRONT PANEL:** Any frequency may be selected by pressing a microphone or front panel switch.
- **SUPERIOR RECEIVER SENSITIVITY:** 0.28 uV for 20 dB quieting. The squelch sensitivity is superb, requiring less than 0.1 uV to open. The receiver audio circuits are designed and built to exacting specifications, resulting in unsurpassed received signal intelligibility.
- **TRUE FM, NOT PHASE MODULATION:** Transmitted audio quality is optimized by the same high standard of design and construction as is found in the receiver. The microphone amplifier and compression circuits offer intelligibility second to none.
- **OTHER FEATURES:** Dynamic Microphone, built in speaker, mobile mounting bracket, external remote speaker jack (head and radio) and much, much more. All cords, plugs, fuses, microphone hanger, etc. included. Weight 6 lbs.
- **ACCESSORIES:** 15' REMOTE CABLE \$29.95 *MARS-CAP KIT...TBA. PCS-6R A/C POWER SUPPLY...\$49.95

CUT AND PASTE CORNER: Please add the following new members to your November Roster and welcome them to future meetings:

Myron R. Goodwin, Jr (Tad)	720 Coleman Av. Apt. L	Menlo Park, CA	94025 322 1737
Perry Yelton	N6CHD 3401 Bayshore Rd	Redwood City, CA	94063 366 7880
H. S. Magnuski (Hank)	KA6M 311 Stanford Av.	Menlo Park, CA	94025 854 1927
And change:			
Robert Hill (Bob)	W1ARR 1621 Redwood Av.	Redwood City, CA	94061 367 9388

Tad is unlicensed but shows the enthusiasm of his co-worker, Bob, K6SEM. His current interests are appropriate: code classes, technical classes and technical topics. His vocabulary and scope of radio knowledge was increased at the December meeting. We're looking for a new check-in on 2 meters, Tad, but will give you at least a few months.

Perry rejoined PAARA after a few years of absence. He's a General with previous calls of W3EMB and K6YWM, first licensed in 1931. His interests are technical talks and his SB-101 keeps him active on the HF bands.

Hank got his first license when he was 14 with previous calls of K9QFL and W2DTG. He holds an Extra Class license and works 2 meters, some of it through OSCAR, but mostly mobile. We hope Hank will slip the rig out of the car Monday evenings at 8:30 and join the PAARAnet and ragchew.

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VISITOR'S CORNER: At the December meeting it was difficult to tell the visitors from the new members, some being equally new to most of us. Those who qualified for this section include Kevin Lapp, WA6FHC and John Gordano, K6JJU of Redwood City, John Fraher, KA6FRK, from Los Altos, Mike Alexander, KA6GRU, Menlo Park, and B. McDermott, AA6WM, from Palo Alto.

If all the Club members didn't extend their welcome to you, come again and give them another chance. Some do, as indicated in the

CATCHUP CORNER, where guests at the November meeting included Kevin, WA6FHC, Steve, KA6HBS Nick, W6OLO, Pamela Langley, Lynne Canham and Jim Vanover who became a member last month.

" " "

COMMUNITY FORUM CORNER: SRI International Forum-- The Mid-Peninsula in the Eighties --

- Governance vs. nongovernance
- Land Use: employment vs. transportation, housing, jobs
- Energy vs. environment

January 23, 1980, 7 p.m. at the SRI International Auditorium, 333 Ravenswood Av., Menlo Park, CA 94025. Admission is free but tickets are needed. Call Kay Clarke at 326-6200, extension 5820 or 4025, or write to SRI's Office of Public Affairs.

REPEATER CORNER: Walt Reed, W6ASH, has developed a new repeater, W6ASH/R on 144.67 in, 145.27 out, which is now in temporary quarters but operating. Ultimately destined for the roof of El Camino Hospital in Mtn. View the machine is operating from Walt's home, using a sort of duplexer--one antenna on a 100 foot redwood and the other near the ground. An excellent duplexer is on order and will be installed soon.

Primarily serving the Southern Peninsula Emergency Communications System, a public service communications net Walt took over more than 20 years ago, the machine will be open to all comms except when needed for emergency, or simulated emergency situations.

We all know these things cost money. For those with a few tax-deductable dollars, Fred, K6RTU, at 105 Solana Dr. Los Altos, 94022, is the SPECS treasurer. He would be glad to send you a receipt for any funds you can spare. Walt originally expected the system would run about \$2000, of which \$1000 had been raised by early December.

x x x

DOWNGRADE CORNER: From the SCCARA-GRAM is pirated a sad item:

A SOUTHERN CALIFORNIA AMATEUR WAS JAILED...

last Friday as a result of 2 meter jamming and related activities. K6xxx's arrest by Federal Officers was for alleged violations of Title 18, sub-part 875C, transmitting threats, and sub-part 1464, the use of "foul, profane and abusive language" over the air. Only a few days earlier K6xxx had denied FCC engineers, who were investigating jamming, access to his station.

Following his arrest, K6xxx was arraigned and placed in detention in lieu of \$10,000 bail. A pre-trial hearing has been tentatively scheduled for October 15 in the Los Angeles Federal District Court.

o o o

SIX LINE FILLER CORNER:

To keep out of the slammer
don't be a jammer,
or use foul language
or cause one to take umbrage.

If a good amateur you want to be,
keep in compliance with the FCC.

UPGRADE CORNER: Beginning January 2, 1980, FCC will adopt a new examination schedule.

Amateur examinations will take up most of Wednesdays as follows:

Code Test, Extra Class	8:30 a.m.
Code Test, General/Advanced	10:30 a.m.
Code Test, Technician	12:30 p.m.

Amateur written examinations 1:00 p.m.
(no code tests)

For the professional upgrader, Commercial Radiotelephone Examinations will be held on Tuesdays only, from 8:30 a.m. until 2:00 p.m. but large groups (5 or more) on Thursday by appointment only.

And Commercial Radiotelegraph examinations will be held on Thursdays - by appointment only, made one week in advance.

To make Wednesday, January 2, 1980 your target date for amateur upgrade. Spend the day in the City and when the FCC informs you that you are not what you used to be, please let your editor know.

For those who need to make an appointment or who have questions, our local Contact Representative of the FCC is

Yvonne M. Dapas
555 Battery St., Rm 323-A
San Francisco, Calif. 94111
Phone (415) 556 7701
* * *

CHRISTMAS PARTY CORNER: Fifty-seven signed up and 57 were there. Of them 45 ordered beef and 12 chicken. One sampler checked both and couldn't make up his mind which was the better.

Six circular tables each had a congenial group, some only a few minutes before being seated were complete strangers and are now acquaintances. YL's and XYL's became reacquainted after meeting last year and, some, from earlier years.

An hour long rag-chew before dinner ended too soon. There were so many there it was impossible to talk with all. The dinner, as in the past, was well timed and good. The atmosphere very pleasant. Gerry, WA6LNV, did a fine job selecting Rick's and making the arrangements.

Bob, K6SEM, became Master of Ceremonies when the dishes had been cleared, introduced the new officers, gave all ok's to Andy, VE3FZK, who has been Vice President and Program Director for the past eight years, and President before that, and to Dusty, K6MPN and Erv, W6YPM, who have been on the Board of Directors the past two years. He also thanked Fred, K6YT and Cam, K6RU, for their effort in the 1979 Field Day exercise. Eric, W6DU, made

some good natured remarks about the improvement in the appearance of K6SEM's station during the past year and circulated a photograph to prove his point. Unknown to Bob or the crowd, the picture appeared to be that of a WW I Field Wireless Station and brought chuckles all around.

Bill Robinson described the 1979 Field Day exploits of the Foothill Amateur Radio Society and Ted Harris, W8RFA, presented the CCRC plaque to Bob and PAARA. It was then given to the Club Warehouseman Fred, K6YT, for safekeeping.

Don, W6CFZ, and YL Gail, played Santa and Santa's helper, distributing the reciprocal gift exchange.

Most all had left by 9:45 after a thoroughly enjoyable evening, finishing a banner year in grand style. If you missed this one, plan ahead and a healthy, happy prosperous new year to all...

= = =

UNCLASSIFIED CORNER: It came like this:
"Bob, W6BFH--'ad' for paper:

I rarely use my 0-250mHz counter and 200 mHz preamp. Will sell or trade. Looking for a Drake RV4, Notch Filter, or electronic keyer. Details from Ed, W6AIN" Ed can be contacted at 322 0319, or see him at the meeting--he's the purveyor of fine cakes and coffees at the meetings, for those who don't know him.

WANTED: Post 599 is looking for a Ten-Tec Century 21. See Jim, WA7UDG or Liza, WA7WXA at 325 8309.

EXTRA: Clay, K50SQ, has a power supply for a NCX3 or NCX 5. If you want or need it give him a call at 349 1876.

WANTED: Post 599 is developing a 2-meter AM net and is looking for contributions of gear a little past the current state of the art. Tax benefits available. Museum pieces don't come cheap--Jim, see above, will give you a receipt for as much as his conscience and the IRS will bear.

SPACE in the UNCLASSIFIED CORNER is available to members of PAARA, and to others as space permits, with naught but good will from the publishers and editor of PAARAGraphs.

o o o

EDITOR'S CORNER: There is seldom any room for something from the editor. This month it is nine lines, more than he usually writes.

In it, the PAARAGraphs Staff wishes to thank the Club for making the paper necessary and its advertisers for making it possible. Special thanks go to those who have contributed items and articles for inclusion.

HAPPY NEW YEAR

Bob

Tuner and power supplies designed for your home QTH NEW

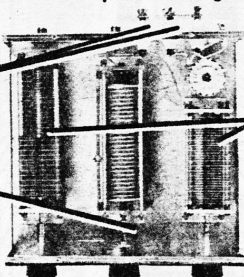
This new Heathkit 2 kW Antenna Tuner accepts all feed lines

\$149⁹⁵

- Built-in balun accepts balanced or unbalanced feed
- Continuously variable inductor for exact matching
- Eraseable front panel for writing in band settings

Large ceramic insulators are designed to handle 2000 W PEP

Continuous tuning means a perfect match every time



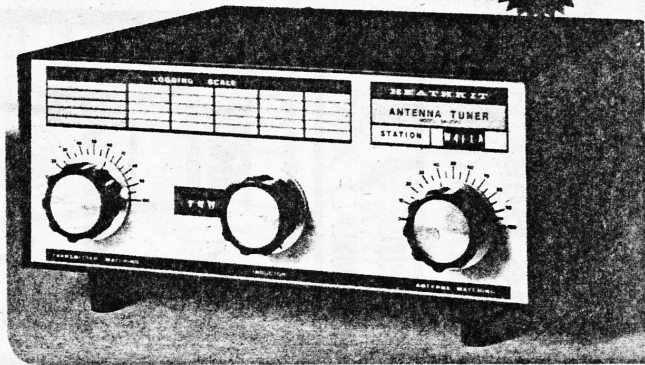
Capacitors are easy to build and service

Here's the Antenna Tuner you've been asking for — and the more than 200 Hams at Heath have designed it with features and price that are hard to beat!

You're going to like the way the new Heathkit SA-2040 2 kW Antenna Tuner helps you radiate more of your signal by maximizing power transfer from your transmitter to your antenna. Your neighbors will like it, too, because it will help you reduce TVI and out of band emissions. The built-in balun gives you the versatility of using any type of feedline — balanced or unbalanced. And you can tune continuously from 3.5 MHz to 30 MHz, which means your SA-2040 is ready for MARS operation or for future band allocations.

This handsome addition to your shack features a continuously variable inductor to give you an infinite number of impedance settings, assuring precise antenna matching. A convenient counter on the front panel indicates inductors settings. And the eraseable front panel allows you to make notations of band settings for ease of operation, especially helpful in contest conditions.

The SA-2040 features silver-plated straps and roller contact assembly for minimal RF loss at high frequencies. Its large ceramic feed-through insulators are designed to withstand high voltage RF. This Antenna Tuner is capable of han-



dling power input of up to 2000 watts PEP on side-band and 1000 watts on CW. SO-239 connectors allow incorporation into your 50Ω system.

It won't take you long to get your SA-2040 on the air — the easy-to-build kit is a two-evening project. And when you've tightened the cover, you can personalize your Heathkit Antenna Tuner, because stick-on numerals and letters in the kit let you add your own call sign to the front panel. The rugged black metal cabinet measures 5⁵/₈" H x 14³/₈" W x 13¹/₈" D.

Compare our new SA-2040 2 kW Antenna Tuner with all the competitors — match power handling capabilities, features and price. Then you'll see why the SA-2040 is your best buy for the money. This new Tuner is going to look great in your shack...and do a great job for you, too!

Kit SA-2040, Shpg. wt. 15 lbs. 149.95
 HDP-3622, 3-ft. RG8U jumper with PL259 connectors, Shpg. wt. 1 lb. 4.95

SA-2040 SPECIFICATIONS: Frequency Coverage: 3.5-30 MHz. Power Input Capability: SSB: 2000 watts PEP; CW: 1000 watts. Input Impedance: 50 ohm. Output Impedance: Wide Range. Cabinet Dimensions: 5⁵/₈" H x 14³/₈" W x 13¹/₈" D.

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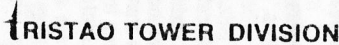
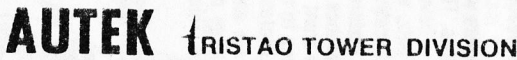
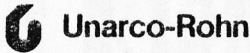
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